



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Com. DEGREE EXAMINATION – ACCOUNTING AND FINANCE

SIXTH SEMESTER – APRIL 2023

UAF 6504 – EMERGING TECHNOLOGIES IN FINANCE

Date: 08-05-2023

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

Section A

Answer all by choosing the best option.

(40 * 1 = 40)

1. The components of a block are
 - a. Transaction, timestamp, hash of previous block
 - b. Transaction and ledger
 - c. Transaction and header
 - d. Transaction and digital ledger
2. The component that ensures the successful transactions in the network is
 - a. Incentives
 - b. Consensus algorithms
 - c. Blocks
 - d. Ledger
3. Which is called the digital gold?
 - a. Ethereum
 - b. Bitcoin
 - c. Hyper ledger
 - d. Plastic money
4. What does UTXO stand for?
 - a. Unspent Trade Offer
 - b. Unspent Transaction Xeroxed Output
 - c. Unique Transaction Offer
 - d. Unspent Transaction Output
5. Transaction 0 in every block of the bitcoin blockchain_____.
 - a. Miner fees
 - b. Does not have any input UTXO
 - c. Coin base transaction
 - d. All of the above
6. Genesis block is
 - a. Any block created by the founder
 - b. The last block of the Blockchain
 - c. The first block of a Blockchain
 - d. The first transaction in each block
7. Bitcoin is based on _____ blockchain.
 - a. Private
 - b. Public
 - c. Public Permissioned
 - d. Permissioned
8. Blockchain follows the ____ continuum for its transactions
 - a. Push
 - b. Pull

- c. Both Push and pull
 - d. None of the above
9. Where is a Blockchain's central server?
- a. Origin of the blockchain
 - b. Service provider
 - c. There is no central server, it is distributed
 - d. Ordered Node
10. Blockchain solves the following problem of cryptocurrencies.
- a. Anonymous transactions
 - b. Double Spending
 - c. Currency transaction
 - d. None of the above
11. Blockchain does not provide?
- a. Security
 - b. Immutability
 - c. Fault tolerance
 - d. Fast transaction time
12. Nonce
- a. Null bitcoin
 - b. A Hash Function
 - c. Prevents Double Spending
 - d. Merkle tree
13. A hot wallet is
- a. Connected to Internet
 - b. Not connected to Internet
 - c. Connected to centralized systems
 - d. Wallet with high temperature
14. Ethereum virtual machine is powered by
- a. Gas
 - b. Electricity
 - c. Transactions
 - d. Ledgers
15. Proof of stake is a
- a. Ledger
 - b. Consensus algorithm
 - c. Incentive mechanism
 - d. Transaction
16. Mechanisms that allow tokens and other digital assets from one blockchain to be securely used in a separate blockchain called
- a. Parachain
 - b. Side chain
 - c. Small blocks
 - d. Side blocks
17. A hacker can alter ____ percentage of a block.
- a. 49
 - b. 51
 - c. 100
 - d. None
18. A blockchain split is called a
- a. Partition
 - b. Fork
 - c. Half block
 - d. Partial block

19. The alternatives of Proof of Work are

- a. Proof of Distribution
- b. Proof of stake
- c. Proof of Network
- d. Proof of Ledger

20. PBFT stands for

- a. Public Bond Fund Transfer
- b. Practical Byzantine Fault Tolerance
- c. Principal Block First Transfer
- d. Private Block Funds Transfer

21. Precursor of bitcoin is

- a. Digicash
- b. Paytm
- c. Amazon wallet
- d. Google wallet

22. The process of supplying computing power to solve complex math's problems in order to provide network security with an expectation of a reward is called

- a. Warehousing
- b. Mining
- c. Data mining
- d. Data manipulation

23. The address where the coins or tokens are sent and received

- a. Public address
- b. Private address
- c. Group address
- d. Community address

24. The type of asset that anyone can possess by voluntarily joining any public blockchain without having to trust any third party

- a. Crypto assets
- b. Tangible assets
- c. Intangible assets
- d. Fixed assets

25. Hash ID has

- a. 512 characters
- b. 1024 characters
- c. 64 characters
- d. 256 characters

26. The cryptocurrency TrueUSD is built using the

- a. RSA Protocol
- b. Substitution protocol
- c. Networking protocol
- d. True Token protocol

27. Quorum is an Ethereum based

- a. Enterprise blockchain
- b. Collaborative blockchain
- c. Consortium blockchain
- d. Consensus algorithm

28. The process of converting an information into a secret message is called

- a. Encryption
- b. Decryption
- c. Substitution
- d. Conversion

29. The software that creates and stores the private keys and the associated public keys is called a

- a. Wallet
- b. Record
- c. Relation
- d. Smart contract

30. The M and N of a multi-sig wallet denote the number of

- a. required signers and authorized signers
- b. authorized signers and required signers
- c. available signers and authenticated signers
- d. authorized and authenticated signers

31. The temporary access code that is produced by an app or hardware token is called a

- a. Two Factor Authentication
- b. Two Factor Access
- c. Two File Access
- d. Two File Authentication

32. Crypto assets _____ represent the total market cap of all cryptoassets.

- a. Price indices
- b. Market capitalization
- c. Exchanges
- d. Browsers

33. Transaction throughput is measured in terms of

- a. Number of transactions per second
- b. Number of transactions per minute
- c. Number of transactions per hour
- d. Number of transactions per day

34. The contracts that are both human and machine readable to aid in dispute resolution and interpretation are called the

- a. Richardson contracts
- b. Ricardian contracts
- c. Rich contracts
- d. Raw contracts

35. The method to add the hash into the bitcoin blockchain is called the

- a. Anchoring
- b. Inserting
- c. Stabilizing
- d. Hashing

36. ____ signs the transactions in a block

- a. Endorser
- b. Committer
- c. Consenter
- d. Miner

37. ____ validates the transactions in a block

- a. Endorser
- b. Committer
- c. Consenter
- d. Miner

38. Internal controls act for

- a. Recording
- b. Custody
- c. Authority
- d. All the above

39. The process of reducing the storage size of the entire copy of the blockchain is called the

- a. Block turning
- b. Block recording

- c. Block monitoring
- d. Block pruning

40. Shards are

- a. Horizontal partitioning of data
- b. Vertical partitioning of data
- c. Linear partitioning of data
- d. Multiple partitioning of data

Answer any six questions from the following.

(6 * 10 = 60)

- 41. How are bitcoins accounted in the books of accounts? How did Tesla account for the bitcoins it purchased?
- 42. What are the types of crypto wallets? List and explain.
- 43. Explain the fees paid for transactions. How are the NFT sales bargaining in the gas fees?
- 44. How are crypto assets traded in the market? Explain the process and components of crypto assets trading.
- 45. What is a Howey Test? Explain how ICOs, STOs and IEOs are subject to Howey's test.
- 46. Explain Smart contracts. How does it ensure security of crypto currency transactions?
- 47. List and explain the various new fraud schemes that are floated to challenge the security assurance of Crypto currency transactions.
- 48. Explain how technical controls form a part of the internal controls in a blockchain.

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